CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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QC ABSTRACT

Nameof Work:Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testesas per Frequency	Actual No's of testes as per Frequency	Testes
1	Materials	-	1	1	Cement
					Sand,
2	Slab (100mm)	1868.8 Sqm	1	1	Concrete Core Compressive Strength
3	WMM	1639.9 Cum	-	-	-
		Gradation	17	17	-
		AIV	9	9	-
		Shape Test	9	9	-
		Atterberg Limits	17	17	-
4	DBM	377.27 Cum	-	-	-
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Stability of Mix	8	8	-
		Bitumen content	8	8	-
5	BC	985.22 Cum	-	-	-
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Stability of Mix	20	20	-
		Bitumen content	20	20	-

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CIVIL AIM CONSULTANTS & ENGINEERS Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 13.01.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	M/S **M S V Construction Company,** Contractor, Bangalore.
NAME OF THE WORK	:	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		December - 2021
DATE OF TESTING		11.01.2022 to 13.01.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 13.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

Date of Testing : 13.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	90	9.00	9.00	91.0	90-100
2.36	125	12.50	21.50	78.5	75-100
1.18	184	18.40	39.90	60.1	55-90
600 Micron	170	17.00	56.90	43.1	35-59
300 Micron	255	25.50	82.40	17.6	8-30
150 Micron	140	14.00	96.40	3.6	0-10

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :13.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

Date of Testing :13.01.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	37	3.70	5.20	94.8	70-100
600 Micron	82	8.20	13.40	86.6	40-100
300 Micron	259	25.90	39.30	60.7	5-70
150 Micron	490	49.00	88.30	11.7	0-15

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22

Date: 20.01.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore**

Contractor : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 20.01.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.395	2483.60	1.62	0.959	31.52	16.05	17.34	16.63	20.78
2	50.00	83.00	0.401	2460.57	1.66	0.963	32.15	16.37	17.68	17.03	21.29
3	50.00	85.00	0.405	2426.64	1.70	0.968	31.90	16.25	17.55	16.98	21.22

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :09.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work :Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :09.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	186	186	1.9	98.1	95-100
22.4	2531	2717	27.2	72.8	60-80
11.2	2140	4857	48.6	51.4	40-60
4.75	1843	6700	67.0	33.0	25-40
2.36	1188	7888	78.9	21.1	15-30
0.600	580	8468	84.7	15.3	8-22
0.075	1229	9697	97.0	3.0	0-5

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Material Type : Wet Mix Macadam

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	196	196	2.0	98.0	95-100
22.4	2520	2716	27.2	72.8	60-80
11.2	2152	4868	48.7	51.3	40-60
4.75	1832	6700	67.0	33.0	25-40
2.36	1185	7885	78.9	21.2	15-30
0.600	621	8506	85.1	14.9	8-22
0.075	1239	9745	97.5	2.6	0-5

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Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	182	182	1.8	98.2	95-100
22.4	2532	2714	27.1	72.9	60-80
11.2	2150	4864	48.6	51.4	40-60
4.75	1844	6708	67.1	32.9	25-40
2.36	1197	7905	79.1	21.0	15-30
0.600	585	8490	84.9	15.1	8-22
0.075	1225	9715	97.2	2.8	0-5

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Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	191	191	1.9	98.1	95-100
22.4	2522	2713	27.1	72.9	60-80
11.2	2163	4876	48.8	51.2	40-60
4.75	1843	6719	67.2	32.8	25-40
2.36	1175	7894	78.9	21.1	15-30
0.600	622	8516	85.2	14.8	8-22
0.075	1234	9750	97.5	2.5	0-5

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53	0	0	0	100	100
45	185	185	1.9	98.2	95-100
22.4	2533	2718	27.2	72.8	60-80
11.2	2155	4873	48.7	51.3	40-60
4.75	1843	6716	67.2	32.8	25-40
2.36	1182	7898	79.0	21.0	15-30
0.600	578	8476	84.8	15.2	8-22
0.075	1236	9712	97.1	2.9	0-5

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53	0	0	0	100	100
45	199	199	2.0	98.0	95-100
22.4	2539	2738	27.4	72.6	60-80
11.2	2169	4907	49.1	50.9	40-60
4.75	1839	6746	67.5	32.5	25-40
2.36	1179	7925	79.3	20.8	15-30
0.600	629	8554	85.5	14.5	8-22
0.075	1232	9786	97.9	2.1	0-5

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53	0	0	0	100	100
45	196	196	2.0	98.0	95-100
22.4	2160	2356	23.6	76.4	60-80
11.2	2456	4812	48.1	51.9	40-60
4.75	1838	6650	66.5	33.5	25-40
2.36	1181	7831	78.3	21.7	15-30
0.600	625	8456	84.6	15.4	8-22
0.075	1232	9688	96.9	3.1	0-5

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53	0	0	0	100	100
45	182	182	1.8	98.2	95-100
22.4	2563	2745	27.5	72.6	60-80
11.2	2111	4856	48.6	51.4	40-60
4.75	1841	6697	67.0	33.0	25-40
2.36	1181	7878	78.8	21.2	15-30
0.600	580	8458	84.6	15.4	8-22
0.075	1230	9688	96.9	3.1	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date 11.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work :Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 11.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	198	198	2.0	98.0	95-100
22.4	2530	2728	27.3	72.7	60-80
11.2	2165	4893	48.9	51.1	40-60
4.75	1840	6733	67.3	32.7	25-40
2.36	1180	7913	79.1	20.9	15-30
0.600	626	8539	85.4	14.6	8-22
0.075	1236	9775	97.8	2.3	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 11.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	187	187	1.9	98.1	95-100
22.4	2536	2723	27.2	72.8	60-80
11.2	2155	4878	48.8	51.2	40-60
4.75	1845	6723	67.2	32.8	25-40
2.36	1189	7912	79.1	20.9	15-30
0.600	582	8494	84.9	15.1	8-22
0.075	1232	9726	97.3	2.7	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 11.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	196	196	2.0	98.0	95-100
22.4	2533	2729	27.3	72.7	60-80
11.2	2163	4892	48.9	51.1	40-60
4.75	1844	6736	67.4	32.6	25-40
2.36	1183	7919	79.2	20.8	15-30
0.600	620	8539	85.4	14.6	8-22
0.075	1232	9771	97.7	2.3	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 11.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	184	184	1.8	98.2	95-100
22.4	2536	2720	27.2	72.8	60-80
11.2	2150	4870	48.7	51.3	40-60
4.75	1845	6715	67.2	32.9	25-40
2.36	1189	7904	79.0	21.0	15-30
0.600	582	8486	84.9	15.1	8-22
0.075	1232	9718	97.2	2.8	0-5

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Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	190	190	1.9	98.1	95-100
22.4	2533	2723	27.2	72.8	60-80
11.2	2166	4889	48.9	51.1	40-60
4.75	1844	6733	67.3	32.7	25-40
2.36	1188	7921	79.2	20.8	15-30
0.600	620	8541	85.4	14.6	8-22
0.075	1229	9770	97.7	2.3	0-5

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Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	181	181	1.8	98.2	95-100
22.4	2560	2741	27.4	72.6	60-80
11.2	2130	4871	48.7	51.3	40-60
4.75	1830	6701	67.0	33.0	25-40
2.36	1196	7897	79.0	21.0	15-30
0.600	595	8492	84.9	15.1	8-22
0.075	1235	9727	97.3	2.7	0-5

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Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	191	191	1.9	98.1	95-100
22.4	2522	2713	27.1	72.9	60-80
11.2	2163	4876	48.8	51.2	40-60
4.75	1843	6719	67.2	32.8	25-40
2.36	1175	7894	78.9	21.1	15-30
0.600	622	8516	85.2	14.8	8-22
0.075	1234	9750	97.5	2.5	0-5

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Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	159	159	1.6	98.4	95-100
22.4	2539	2698	27.0	73.0	60-80
11.2	2169	4867	48.7	51.3	40-60
4.75	1839	6706	67.1	32.9	25-40
2.36	1179	7885	78.9	21.2	15-30
0.600	629	8514	85.1	14.9	8-22
0.075	1232	9746	97.5	2.5	0-5

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Date of Testing : 12.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	199	199	2.0	98.0	95-100
22.4	2539	2738	27.4	72.6	60-80
11.2	2169	4907	49.1	50.9	40-60
4.75	1839	6746	67.5	32.5	25-40
2.36	1179	7925	79.3	20.8	15-30
0.600	629	8554	85.5	14.5	8-22
0.075	1232	9786	97.9	2.1	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 09.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 07.03.2022 to 09.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Date : 09.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 07.03.2022 to 09.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: : IS 2720(Part 5):1985

Date of Testing : 07.03.2022 to 09.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Agency : **M/S M S V Construction Company, Contractor, Bangalore.**
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IS Code: : IS 2720(Part 5):1985
Date of Testing : 07.03.2022 to 09.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :10.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 08.03.2022 to 10.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Date of Testing : 08.03.2022 to 10.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: : IS 2720(Part 5):1985

Date of Testing : 08.03.2022 to 10.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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